

California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM NO. R1-2001-##*

FOR

GEORGIA-PACIFIC CORPORATION
FORT BRAGG LUMBER MILL

Mendocino County

EFFLUENT MONITORING

Flow shall be measured daily, Monday through Friday, at the overflow weir of Discharge No. 001 and reported in million gallons/day (mgd). Effluent samples shall be as grab samples at the millpond overflow weir.

WEEKLY SAMPLING

Grab samples collected from Discharge No. 001 shall be analyzed for:

<u>Constituent</u>	<u>Units</u>	<u>Sample Type</u>
Cyanide	mg/L	grab

MONTHLY SAMPLING

Grab samples collected from discharge no. 001 shall be analyzed for:

<u>Constituent</u>	<u>Units</u>	<u>Sample Type</u>
Ammonia	milligrams nitrogen per liter	grab
Turbidity	NTU	grab
pH	pH	grab
Settleable solids	mL/L	grab

SEMI-ANNUAL SAMPLING

Semi-annual sampling is intended to determine compliance during wet weather and dry weather conditions. No dry weather samples shall be required if there is no discharge from the mill pond Discharge No. 001 during the month of August.

Grab samples for fish bioassay shall be collected from Discharge No. 001 during the months of February and August. The Rainbow Trout, *Oncorhynchus mykiss*, shall be used as the test fish and the test temperature shall be maintained between 14 and 17 degrees Celsius. Results shall be reported as acute toxicity, TUa.

During the months of February and August, chronic toxicity from Discharge No. 001 shall be reported as TUC as specified in the Ocean Plan. For the first two semi-annual monitoring events, test organisms shall include topsmelt *Atherinops affinis*, red abalone *Haliotis rufescens*, and giant kelp *Macrocystis pyrifera*. The sensitivity of these three test organisms shall be determined during the first year of testing; and subsequent chronic toxicity bioassays shall use only the critical life stage of the most sensitive of the three organisms.

During the months of February and August, grab samples shall be collected from Discharge No. 001 for the following analyses:

<u>Constituent</u>	<u>Units</u>
Suspended Solids	mg/L
Oil and Grease	mg/L
Total Phenolics	mg/L
Arsenic	ug/L
Cadmium	ug/L
Chromium (+6)	ug/L
Copper	ug/L
Lead	ug/L
Mercury	ug/L
Nickel	ug/L
Selenium	ug/L
Silver	ug/L
Zinc	ug/L

ANNUAL SAMPLING

Once during each calendar year, and not less than six months after sampling for the preceding calendar year, a grab sample from discharge No. 001 shall be analyzed for the constituents listed below. The result for hexachlorocyclohexane shall be expressed as the sum of the alpha, beta, gamma (lindane), and delta isomers. Results shall be included with the December monthly report.

<u>Constituent</u>	<u>Units</u>
Acrolein	ug/L
Acrylonitrile	ug/L
Aldrin	ug/L
Antimony	ug/L
Benzene	ug/L
Benzidine	ug/L
Beryllium	ug/L
bis(2-chloroethoxy)methane	ug/L
bis(2-chloroethyl)ether	ug/L
bis(2-ethylhexyl)phthalate	ug/L
bis(2-chloroisopropyl)ether	ug/L

Carbon Tetrachloride	ug/L
Chlordane*	ug/L
<u>Constituent</u>	<u>Units</u>
Chlorinated Phenolics	ug/L
Chlorine Residual (total)	ug/L
Chlorobenzene	ug/L
Chloroform	ug/L
Chromium (hexavalent)	ug/L
Chromium (trivalent)	ug/L
DDT*	ug/L
Dichlorobenzenes*	ug/L
1,4-dichlorobenzene	ug/L
3,3'-dichlorobenzidine	ug/L
1,2-dichloroethane	ug/L
1,1-dichloroethylene	ug/L
Dichloromethane	ug/L
1,3-dichloropropene	ug/L
Dieldrin	ug/L
Diethyl Phthalate	ug/L
Dimethyl Phthalate	ug/L
di-n-butylphthalate	ug/L
4,6-dinitro-2-methylphenol	ug/L
2,4-dinitrophenol	ug/L
2,4-dinitrotoluene	ug/L
1,2-diphenylhydrazine	ug/L
Endosulfan	ug/L
Endrin	ug/L
Ethylbenzene	ug/L
Fluoranthene	ug/L
Halomethanes*	ug/L
Heptachlor*	ug/L
Hexachlorobenzene	ug/L
Hexachlorobutadiene	ug/L
Hexachlorocyclohexane	ug/L
Hexachlorocyclopentadiene	ug/L
Hexachloroethane	ug/L
Isophorone	ug/L
Nitrobenzene	ug/L
N-nitrosodimethylamine	ug/L
N-nitrosodiphenylamine	ug/L
PAHs*	ug/L
PCBs*	ug/L
Phenolic Compounds	ug/L
Radioactivity	pCi/L
TCDD equivalents*	ug/L
1,1,2,2-tetrachloroethane	ug/L
Tetrachloroethylene	ug/L

Thallium	ug/L
Toluene	ug/L
Toxaphene	ug/L
<u>Constituent</u>	<u>Units</u>
Tributyltin	ug/L
1,1,1-trichloroethane	ug/L
1,1,2-trichloroethane	ug/L
Trichloroethylene	ug/L
2,4,6-trichlorophenol	ug/L
Vinyl Chloride	ug/L

RECEIVING WATER MONITORING

Two ocean monitoring stations shall be established. One, designated DISCHARGE, shall be within ten meters westward of Discharge No. 001. The second station, designated BACKGROUND, shall be at similar depth and in similar substrate at some point on the headland between Noyo Harbor and the Fort Bragg wastewater treatment facility, but not closer than 100 meters to any storm water discharge point. Beginning in 2003, at the time of annual monitoring, grab samples shall be collected at both stations. These samples shall be analyzed for pH, sulfide, dissolved oxygen.

Once during the life of this permit, a comparative evaluation shall be made of indigenous biota at both stations, DISCHARGE and BACKGROUND, by a biologist. The biologist shall prepare a report of observations, including objectionable aquatic growths, floating particulates or grease and oil, aesthetically undesirable discoloration of the ocean surface, color of fish or shellfish, and any evidence of degradation of indigenous biota attributable to the rate of deposition of inert solids, settleable material, nutrient materials, increased concentrations of organic materials, or increased concentrations of Ocean Plan Table B substances.

If the permittee requests, this receiving water monitoring program may be revised by the executive officer to conform to a joint receiving water monitoring program to be proposed by the City of Fort Bragg in 2002.

* As defined under effluent limitations

REPORTING

Monitoring results shall be reported on a form similar to the attached example to clearly illustrate compliance with waste discharge requirements. Monthly monitoring reports shall be received by the Regional Water Board by the first day of the second month after the month of sampling. During periods of no discharge, the reports shall certify no discharge.

Ordered by _____

Lee A. Michlin
Executive Officer

March 22, 2001

*Number will be issued when adopted

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